

ITG
A B S T R A C T OF THE DISCLOSURE

A polyolefin article is provided which exhibits excellent levels of mechanical strength and dimensional stability to temperature while not incorporating a dissimilar reinforcing material, such as a glass fiber, and which can be readily manufactured. Methods for manufacture of the polyolefin article are also provided.

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The polyolefin article being composed of polyolefin and including an oriented polyolefin material to maintain its average coefficient of linear expansion at a value of not exceeding 5×10^{-5} (/°C) in the 20 - 80 °C range, and the method for manufacture of the polyolefin article including the steps of depositing, on a surface of an oriented polyolefin material having a value of not exceeding 5×10^{-5} (/°C) for average coefficient of linear expansion in the 20 - 80 °C, ^{RS-66} a low-molecular compound capable of dissolving the polyolefin, and thereafter effecting bonding of the oriented polyolefin material by the application of pressure and heat.